

BRAKE DYNAMOMETER
INSTALLATION SHEET

Procedure DM- 820

o. P1453-198
DATE: 12-18-79
TEST NO. MA-192

TEST CONDITIONS:

Setup No.: 90 Brake Location: R.R. G.T.W.: 3466 Lbs. Roll. Rad: 0.983 Ft.
Brake Balance: 70-30% Flywheel Discs: 4.0 Inertia: 546 Lb.-Ft. 2TYPE BRAKE: 1982 'J' car 200 x45 mm duo-servo rear drum

DISC BRAKE:

Lining Material: _____ Description: _____
Rotor Material: _____ Type of Finish: _____
Surface Finish Microinches _____ Rotor Diameter: _____
Rotor Thickness: _____ Hub & Rotor Weight: _____
Caliper Piston Diameter: _____

DRUM BRAKE:

Lining Material: Pri. ABEK 931-83x2 9/M
Sec. ABEK 931-83x3 9/M
Drum Material: Prod. (NON-FINNED) Type of Finish: Prod.
Surface Finish Microinches 115-125 Drum Diameter: 7.878 inches
Diametral Clearance: .035 inch Drum Weight: 7.39 pounds
Wheel Cylinder Diameter: 17.5 mmSPECIAL INSTRUCTIONS: Thermocouple location: Install a plug type thermocouple .080" below
the rubbing surface on the horizontal centerline adjacent to the backing plate side of
the secondary shoe web. Limit line pressure to 2000 PSI during entire test.
Initiate fades at 100° F. maximum lining temperature.PURPOSE OF TEST: Drum brake lining material evaluation.

SCHEDULE	SHEET NO.
1. Measure linings, drum diameter and surface finish.	8.
2. Pre-burnish effectiveness: 30 & 60 MPH decelerations. Room temperature.	3
3. Burnish: (12 stops); stop 1, 40/10, stops 2 thru 11, 60/15, and stop 12, 40/10. Make stops at 90 sec. int. until 270° F. lining temp. is attained. Make remainder of stops at 270° F. initial lining temp.	9
4. Post Burnish effectiveness: 30, 60, & 80 MPH decels. (150° F. initial temp.)	4
5. C.P.S.: (3) 60 MPH @ 450 PSI. (150° F. initial temp.)	6
6. Static breakaway: Apply 1000 PSI with 250 lb.ft. torque load on brake. Release pressure @ 10 PSI increments until slight drum rotation is observed. Record the average of the 3 applies at start of rotation.	9
7. Fade: (a) Initial feels, (3 snubs) 30 MPH, 10 ft/sec ² @ 90 sec. int. (b) (10) 60 MPH stops, 15 ft/sec ² @ 45 sec. int. (c) Recovery, (6 snubs) 30 MPH, 10 ft/sec ² @ 90 sec. int.	9
8. Reburnish: (4 stops) Same as step 3, except, make only (2) 60 MPH stops.	9
9. Fade: Repeat step 7, except, make 15 stops.	9
10. Reburnish: Repeat step 8.	9
11. Post fade effectiveness: Repeat step 4.	5
12. C.P.S.: Repeat step 5.	7
13. Measurements: Same as step 1.	8